

Schwartzman

#7
Am

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/192,611**

DATE: 03/01/2000 3/2/00
TIME: 12:43:34

INPUT SET: S34907.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1 SEQUENCE LISTING

3 (1) General Information:

ENTERED

5 (i) APPLICANT: Glimcher, Laurie H.
6 Hodge, Martin R.

8 (ii) TITLE OF INVENTION: NF-AT-INTERACTING PROTEIN NIP45 AND METHODS
9 OF USE THEREFOR

11 (iii) NUMBER OF SEQUENCES: 2

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: LAHIVE & COCKFIELD
15 (B) STREET: 60 State Street, suite 510
16 (C) CITY: Boston
17 (D) STATE: Massachusetts
18 (E) COUNTRY: USA
19 (F) ZIP: 02109-1875

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk
23 (B) COMPUTER: IBM PC compatible
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

27 (vi) CURRENT APPLICATION DATA:

28 (A) APPLICATION NUMBER: 09/192,611
29 (B) FILING DATE:
30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: US/08/755,584
34 (B) FILING DATE:

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Giulio A. DeConti, Jr.
38 (B) REGISTRATION NUMBER: 31,503
39 (C) REFERENCE/DOCKET NUMBER: HUI-026

41 (ix) TELECOMMUNICATION INFORMATION:

42 (A) TELEPHONE: (617)227-7400
43 (B) TELEFAX: (617)227-5941

46 (2) INFORMATION FOR SEQ ID NO:1:

INPUT SET: S34907.raw

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 1946 base pairs
50 (B) TYPE: nucleic acid
51 (C) STRANDEDNESS: single
52 (D) TOPOLOGY: linear
53
54 (ii) MOLECULE TYPE: cDNA
55
56 (ix) FEATURE:
57 (A) NAME/KEY: CDS
58 (B) LOCATION: 13..1248
59
60
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63 ACAGTGTGGG AG ATG GCG GAA CCA CTG AGG GGA CGT GGT CCG AGG TCC 48
64 Met Ala Glu Pro Leu Arg Gly Arg Gly Pro Arg Ser
65 1 5 10
66
67 CGC GGT GGC CGA GGC GCT CGG AGA GCC CGA GGC GCC CGT GGC CGG TGT 96
68 Arg Gly Arg Gly Ala Arg Arg Ala Arg Gly Ala Arg Gly Arg Cys
69 15 20 25
70
71 CCT CGC GCC CGG CAG TCT CCG GCT AGG CTC ATT CCA GAC ACC GTG CTT 144
72 Pro Arg Ala Arg Gln Ser Pro Ala Arg Leu Ile Pro Asp Thr Val Leu
73 30 35 40
74
75 GTG GAC TTG GTC AGT GAC AGC GAC GAA GAG GTC TTG GAA GTC GCA GAC 192
76 Val Asp Leu Val Ser Asp Ser Asp Glu Glu Val Leu Glu Val Ala Asp
77 45 50 55 60
78
79 CCA GTA GAG GTG CCG GTC GCC CGC CTC CCC GCG CCG GCT AAA CCT GAG 240
80 Pro Val Glu Val Pro Val Ala Arg Leu Pro Ala Pro Ala Lys Pro Glu
81 65 70 75
82
83 CAG GAC AGC GAC AGT GAC AGT GAA GGG GCG GCC GAG GGG CCT GCG GGA 288
84 Gln Asp Ser Asp Ser Asp Ser Glu Gly Ala Ala Glu Gly Pro Ala Gly
85 80 85 90
86
87 GCC CCG CGT ACA TTG GTG CGA CGG CGG CGG CGG CTG CTG GAT CCC 336
88 Ala Pro Arg Thr Leu Val Arg Arg Arg Arg Arg Leu Leu Asp Pro
89 95 100 105
90
91 GGA GAG GCG CCG GTG GTC CCA GTG TAC TCC GGG AAG GTA CAG AGC AGC 384
92 Gly Glu Ala Pro Val Val Pro Val Tyr Ser Gly Lys Val Gln Ser Ser
93 110 115 120
94
95 CTC AAC CTC ATT CCA GAT AAT TCA TCC CTC TTG AAA CTG TGC CCT TCA 432
96 Leu Asn Leu Ile Pro Asp Asn Ser Ser Leu Leu Lys Leu Cys Pro Ser
97 125 130 135 140
98
99 GAG CCT GAA GAT GAG GCA GAT CTG ACA AAT TCT GGC AGT TCT CCC TCT 480

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/192,611

INPUT SET: S34907.raw

100	Glu Pro Glu Asp Glu Ala Asp Leu Thr Asn Ser Gly Ser Ser Pro Ser			
101	145	150	155	
102				
103	GAG GAT GAT GCC CTG CCT TCA GGT TCT CCC TGG AGA AAG AAG CTC AGA	528		
104	Glu Asp Asp Ala Leu Pro Ser Gly Ser Pro Trp Arg Lys Lys Leu Arg			
105	160	165	170	
106				
107	AAG AAG TGT GAG AAA GAA GAA AAG AAA ATG GAA GAG TTT CCG GAC CAG	576		
108	Lys Lys Cys Glu Lys Glu Lys Lys Met Glu Glu Phe Pro Asp Gln			
109	175	180	185	
110				
111	GAC ATC TCT CCT TTG CCC CAA CCT TCG TCA AGG AAC AAA AGC AGA AAG	624		
112	Asp Ile Ser Pro Leu Pro Gln Pro Ser Ser Arg Asn Lys Ser Arg Lys			
113	190	195	200	
114				
115	CAT ACG GAG GCG CTC CAG AAG CTA AGG GAA GTG AAC AAG CGT CTC CAA	672		
116	His Thr Glu Ala Leu Gln Lys Leu Arg Glu Val Asn Lys Arg Leu Gln			
117	205	210	215	220
118				
119	GAT CTC CGC TCC TGC CTG AGC CCC AAG CAG CAC CAG AGT CCA GCC CTT	720		
120	Asp Leu Arg Ser Cys Leu Ser Pro Lys Gln His Gln Ser Pro Ala Leu			
121	225	230	235	240
122				
123	CAG AGC ACA GAT GAT GAG GTG GTC CTA GTG GAA GGG CCT GTC TTG CCA	768		
124	Gln Ser Thr Asp Asp Glu Val Val Leu Val Glu Gly Pro Val Leu Pro			
125	240	245	250	255
126				
127	CAG AGC TCT CGA CTC TTT ACA CTC AAG ATC CGG TGC CGG GCT GAC CTA	816		
128	Gln Ser Ser Arg Leu Phe Thr Leu Lys Ile Arg Cys Arg Ala Asp Leu			
129	255	260	265	270
130				
131	GTG AGA CTG CCT GTC AGG ATG TCG GAG CCC CTT CAG AAT GTG GTG GAT	864		
132	Val Arg Leu Pro Val Arg Met Ser Glu Pro Leu Gln Asn Val Val Asp			
133	270	275	280	285
134				
135	CAC ATG GCC AAT CAT CTT GGG GTG TCT CCA AAC AGG ATT CTT TTG CTT	912		
136	His Met Ala Asn His Leu Gly Val Ser Pro Asn Arg Ile Leu Leu			
137	285	290	295	300
138				
139	TTT GGA GAG AGT GAA CTG TCT CCT ACT GCC ACC CCT AGT ACC CTA AAG	960		
140	Phe Gly Glu Ser Glu Leu Ser Pro Thr Ala Thr Pro Ser Thr Leu Lys			
141	305	310	315	320
142				
143	CTT GGA GTG GCT GAC ATC ATT GAT TGT GTG GTG CTA GCA AGC TCT TCA	1008		
144	Leu Gly Val Ala Asp Ile Ile Asp Cys Val Val Leu Ala Ser Ser Ser			
145	325	330	335	340
146				
147	GAG GCC ACA GAG ACA TCC CAG GAG CTC CGG CTC CGG GTG CAG GGG AAG	1056		
148	Glu Ala Thr Glu Thr Ser Gln Glu Leu Arg Leu Arg Val Gln Gly Lys			
149	335	340	345	350
150				
151	GAG AAA CAC CAG ATG TTG GAG ATC TCA CTG TCT CCT GAT TCT CCT CTT	1104		
152	Glu Lys His Gln Met Leu Glu Ile Ser Leu Ser Pro Asp Ser Pro Leu			

INPUT SET: S34907.raw

153	350	355	360	
154				
155	AAG GTT CTC ATG TCA CAC TAT GAG GAA GCC ATG GGA CTC TCT GGA CAC			1152
156	Lys Val Leu Met Ser His Tyr Glu Glu Ala Met Gly Leu Ser Gly His			
157	365	370	375	380
158				
159	AAG CTC TCC TTC TTC TTT GAT GGG ACA AAG CTT TCA GGC AAG GAG CTG			1200
160	Lys Leu Ser Phe Phe Phe Asp Gly Thr Lys Leu Ser Gly Lys Glu Leu			
161	385	390	395	
162				
163	CCA GCT GAT CTG GGC CTG GAA TCC GGA GAT CTC ATC GAA GTC TGG GGC			1248
164	Pro Ala Asp Leu Gly Leu Glu Ser Gly Asp Leu Ile Glu Val Trp Gly			
165	400	405	410	
166				
167	TGAAGCTCTC ACCCTGTTCG GACGCAAAGC CAAGACATGG AGACAATAGC TCCCAATT			1308
168				
169	ATTATTGTGA TTTTCGCCCG CATAAGGGCT AACAGAAACT GAATTAGAAC TTGTTTACT			1368
170				
171	ATTTATTTCT GGTGCTGGGG ATTGAACCCC AGACTATGCA CATGCTAAGG ATGTATGAAG			1428
172				
173	TGGAGGCAAA ACCAAGGCAT TACCTTTAGC CAGCCTCTAG TAGACTGTAG TGTCAAGCAA			1488
174				
175	GTGGCTACTT GGTAGTTGTG TGGCTCTGTG TATGTTGTG CTGTATTTGG CAGCCCCCTGG			1548
176				
177	GGCACATAGA AGGGACCTTG GCTTCCCTAC CATTTCACGT TCGCTGGTGC CCTTTCCCTTC			1608
178				
179	ATCAGATGAC TTCTGTGAAG CTGCCTATGT TGAGTGTGTT GAACTAAATG AGCTCTGCTT			1668
180				
181	TGGGTGTCCA GCCCTGGGGT TTGTGCCGCA GTTGGAGCCA GCAGTGACTT CACTCTGACT			1728
182				
183	TGGGACTGAG AATGCATTTC CTGGTGGAGA CACTCGGGTG CAGAAATATA ACAGAAGGTG			1788
184				
185	ACATACATGC TGAAGCTGAG GACTAGGTG AAAGTTAACG ACGTTGCATT TTCAGCCTTG			1848
186				
187	GGTATCCTCT CTGCCTGCCA GGACTCTAGC CAGTGTCTGG TACACACTTC TTGGCATGGA			1908
188				
189	CACCTAGGTC GACGCGGGCG CGATTCGGCC GACTCGAG			1946
190				
191				
192	(2) INFORMATION FOR SEQ ID NO:2:			
193				
194	(i) SEQUENCE CHARACTERISTICS:			
195	(A) LENGTH: 412 amino acids			
196	(B) TYPE: amino acid			
197	(D) TOPOLOGY: linear			
198				
199	(ii) MOLECULE TYPE: protein			
200				
201	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:			
202				
203	Met Ala Glu Pro Leu Arg Gly Arg Gly Pro Arg Ser Arg Gly Gly Arg			
204	1	5	10	15
205				

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/192,611DATE: 03/01/2000
TIME: 12:43:35

INPUT SET: S34907.raw

206 Gly Ala Arg Arg Ala Arg Gly Ala Arg Gly Arg Cys Pro Arg Ala Arg
207 20 25 30
208
209 Gln Ser Pro Ala Arg Leu Ile Pro Asp Thr Val Leu Val Asp Leu Val
210 35 40 45
211
212 Ser Asp Ser Asp Glu Glu Val Leu Glu Val Ala Asp Pro Val Glu Val
213 50 55 60
214
215 Pro Val Ala Arg Leu Pro Ala Pro Ala Lys Pro Glu Gln Asp Ser Asp
216 65 70 75 80
217
218 Ser Asp Ser Glu Gly Ala Ala Glu Gly Pro Ala Gly Ala Pro Arg Thr
219 85 90 95
220
221 Leu Val Arg Arg Arg Arg Arg Leu Leu Asp Pro Gly Glu Ala Pro
222 100 105 110
223
224 Val Val Pro Val Tyr Ser Gly Lys Val Gln Ser Ser Leu Asn Leu Ile
225 115 120 125
226
227 Pro Asp Asn Ser Ser Leu Leu Lys Leu Cys Pro Ser Glu Pro Glu Asp
228 130 135 140
229
230 Glu Ala Asp Leu Thr Asn Ser Gly Ser Ser Pro Ser Glu Asp Asp Ala
231 145 150 155 160
232
233 Leu Pro Ser Gly Ser Pro Trp Arg Lys Lys Leu Arg Lys Lys Cys Glu
234 165 170 175
235
236 Lys Glu Glu Lys Lys Met Glu Glu Phe Pro Asp Gln Asp Ile Ser Pro
237 180 185 190
238
239 Leu Pro Gln Pro Ser Ser Arg Asn Lys Ser Arg Lys His Thr Glu Ala
240 195 200 205
241
242 Leu Gln Lys Leu Arg Glu Val Asn Lys Arg Leu Gln Asp Leu Arg Ser
243 210 215 220
244
245 Cys Leu Ser Pro Lys Gln His Gln Ser Pro Ala Leu Gln Ser Thr Asp
246 225 230 235 240
247
248 Asp Glu Val Val Leu Val Glu Gly Pro Val Leu Pro Gln Ser Ser Arg
249 245 250 255
250
251 Leu Phe Thr Leu Lys Ile Arg Cys Arg Ala Asp Leu Val Arg Leu Pro
252 260 265 270
253
254 Val Arg Met Ser Glu Pro Leu Gln Asn Val Val Asp His Met Ala Asn
255 275 280 285
256
257 His Leu Gly Val Ser Pro Asn Arg Ile Leu Leu Leu Phe Gly Glu Ser
258 290 295 300

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/09/192,611**

DATE: 03/01/2000
TIME: 12:43:35

INPUT SET: S34907.raw

Line

Error

Original Text